

FIG. 1
(RELATED ART)

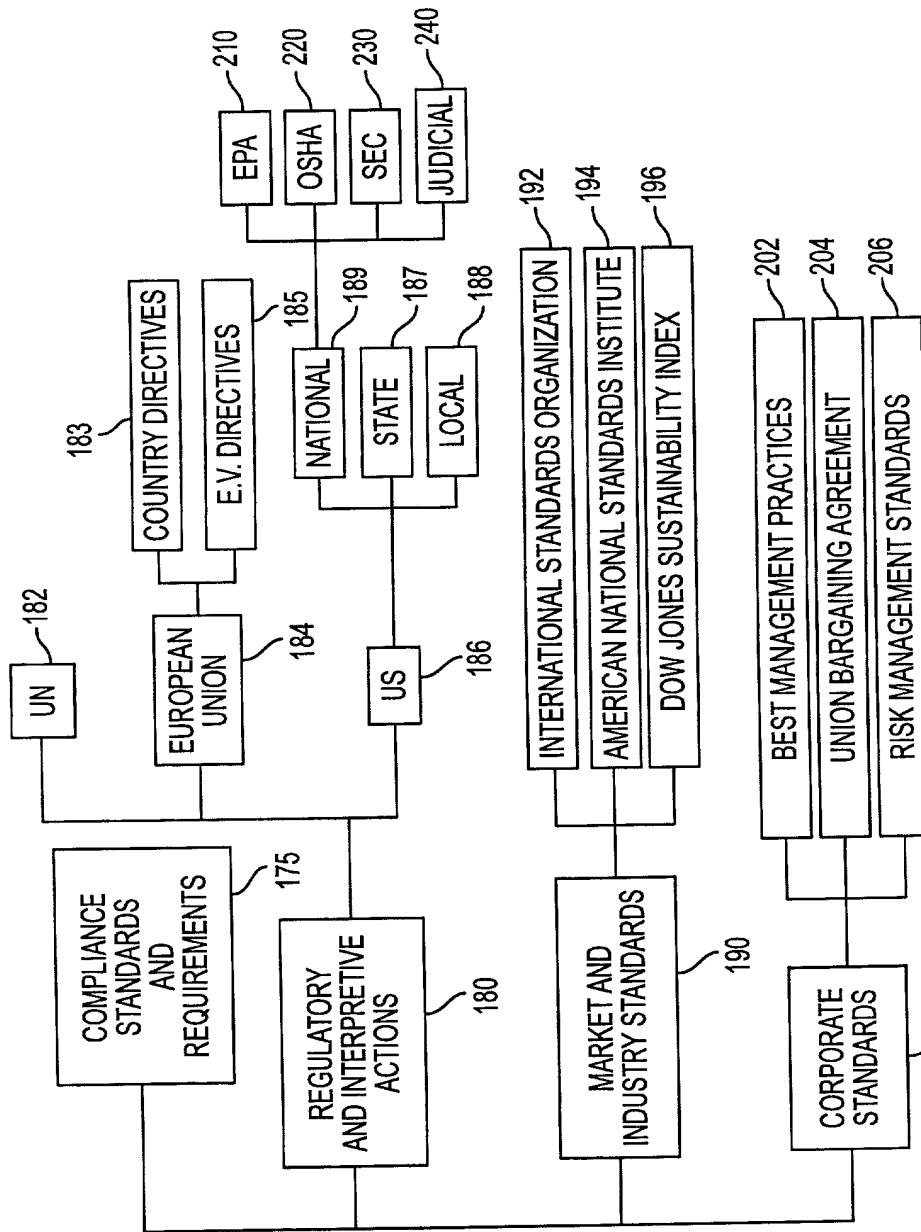


FIG. 2
(RELATED ART)

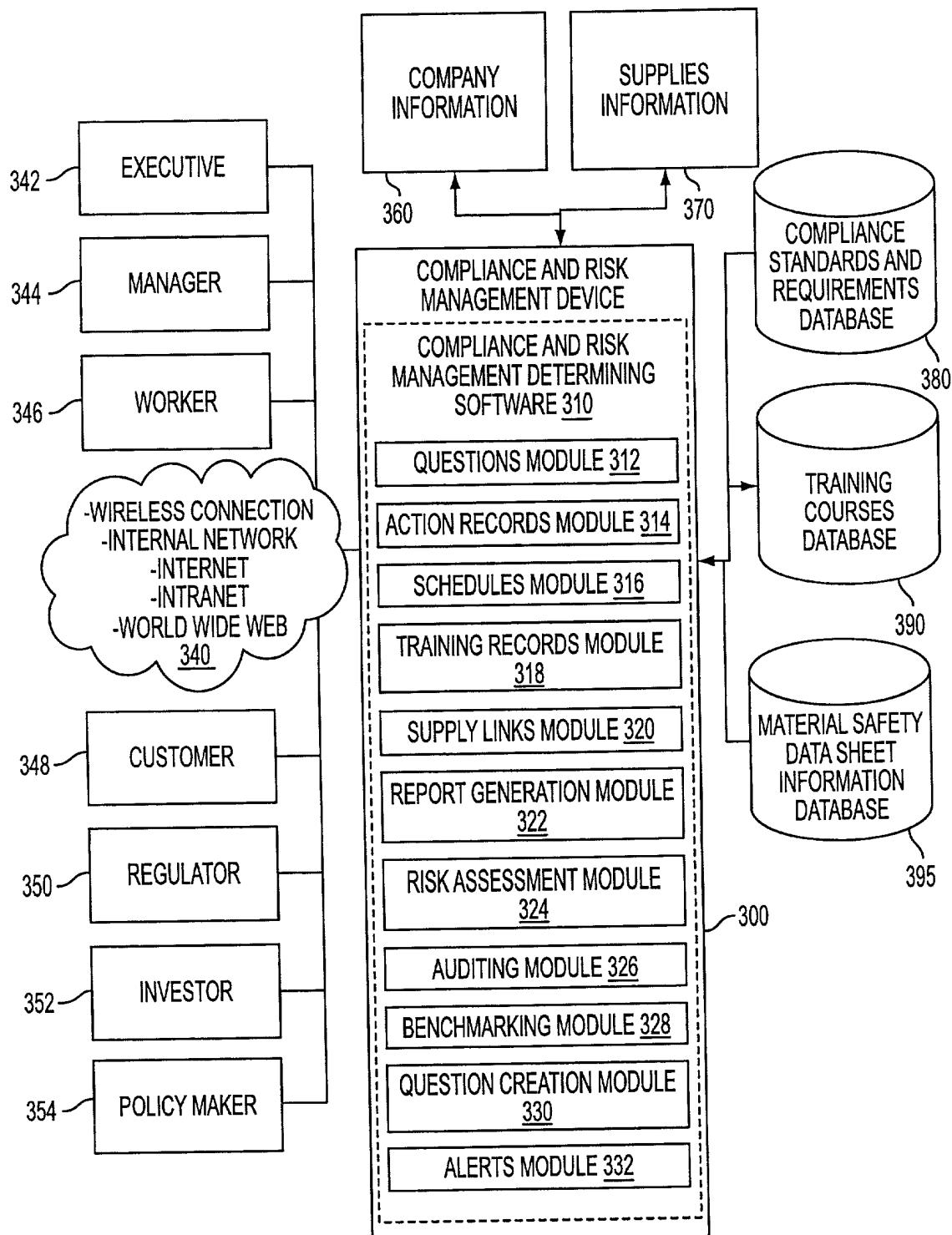
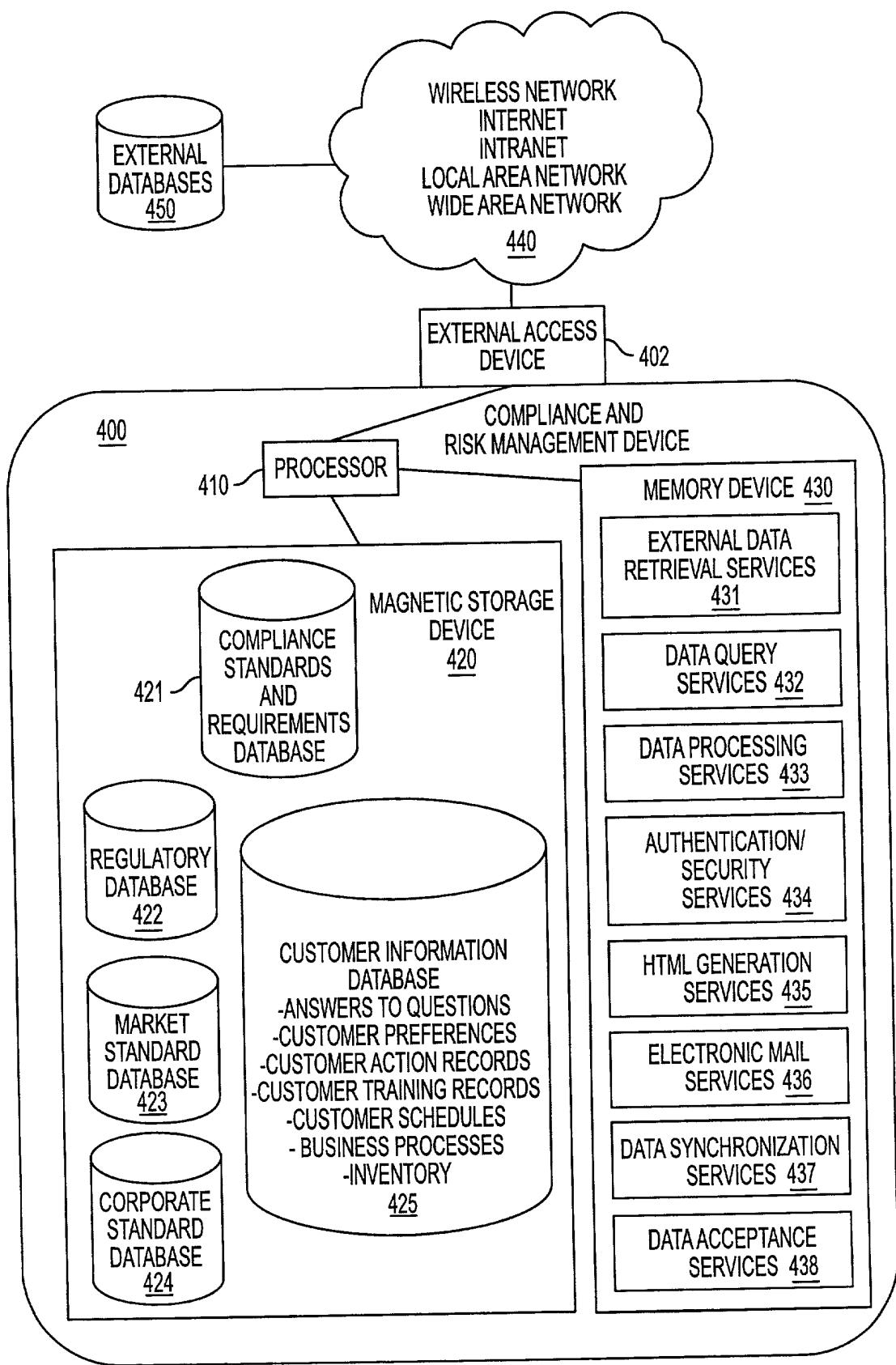


FIG. 3



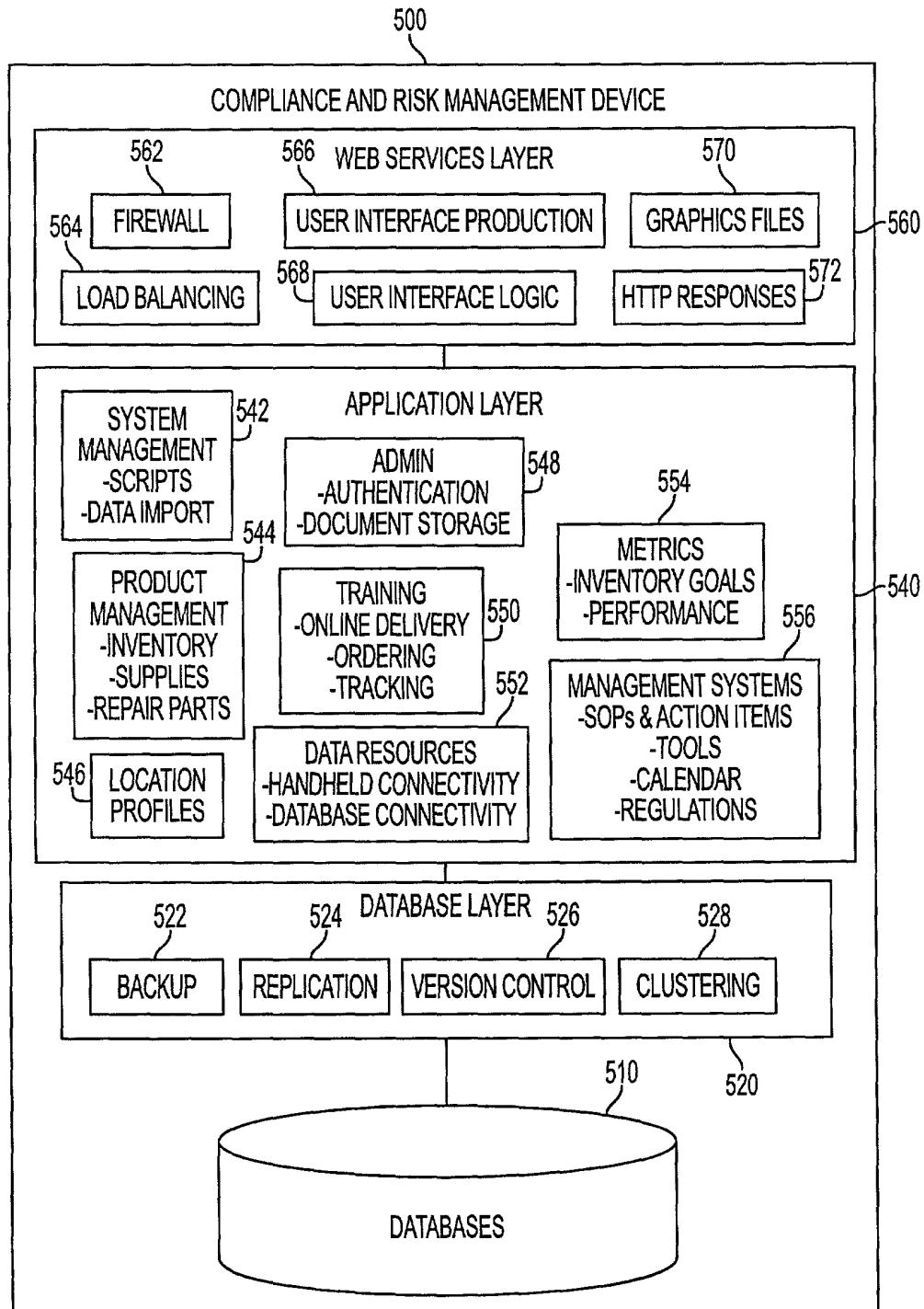
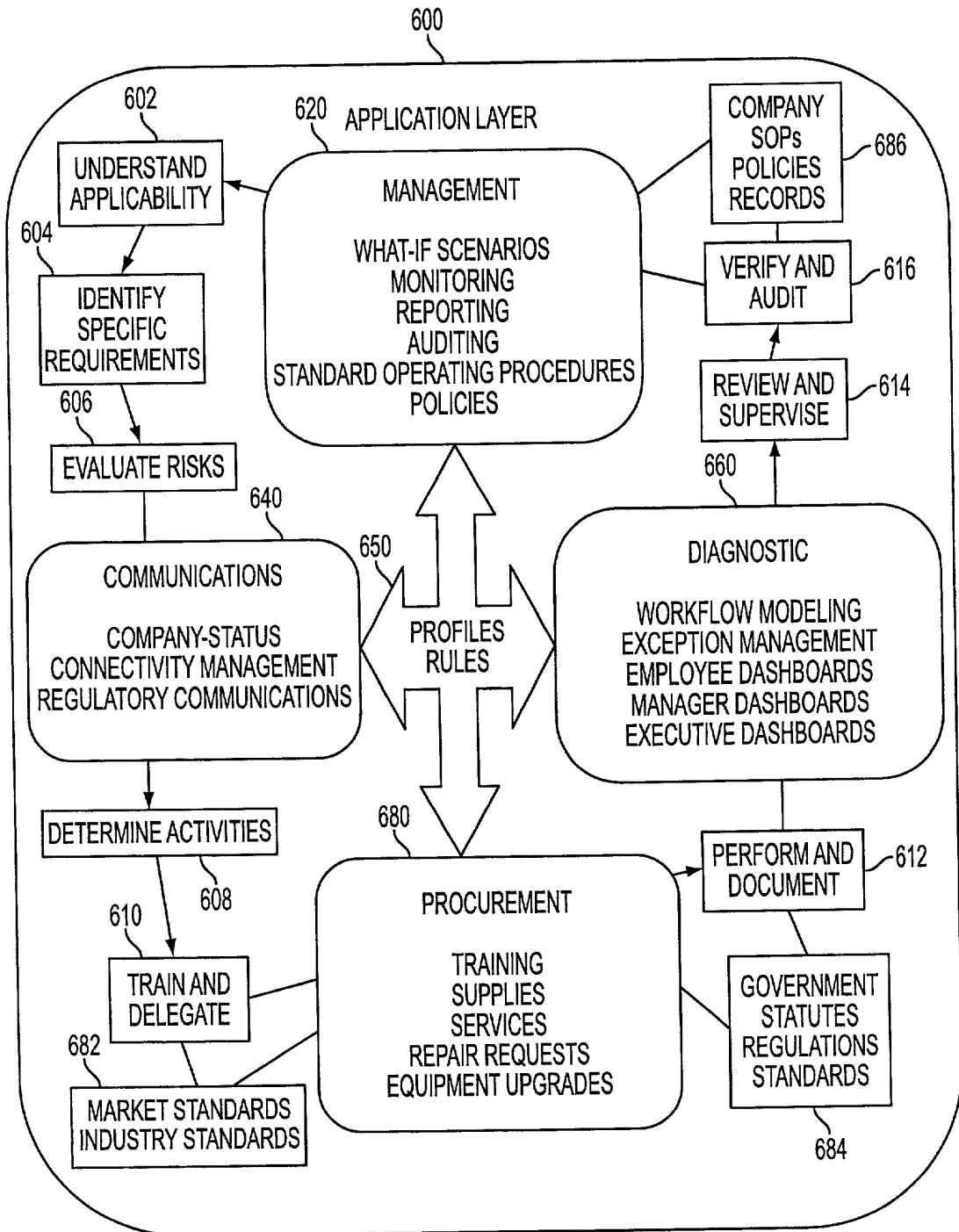


FIG. 5



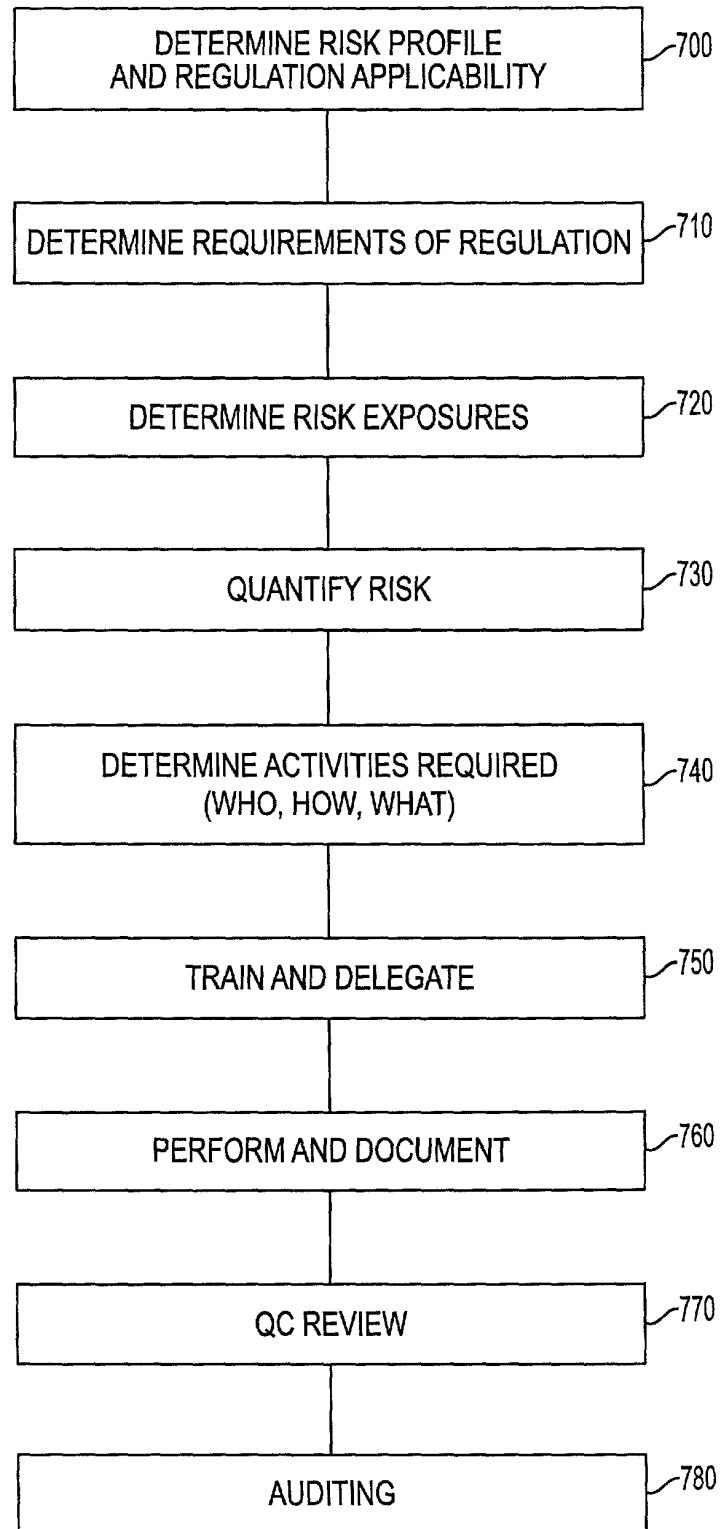


FIG. 7

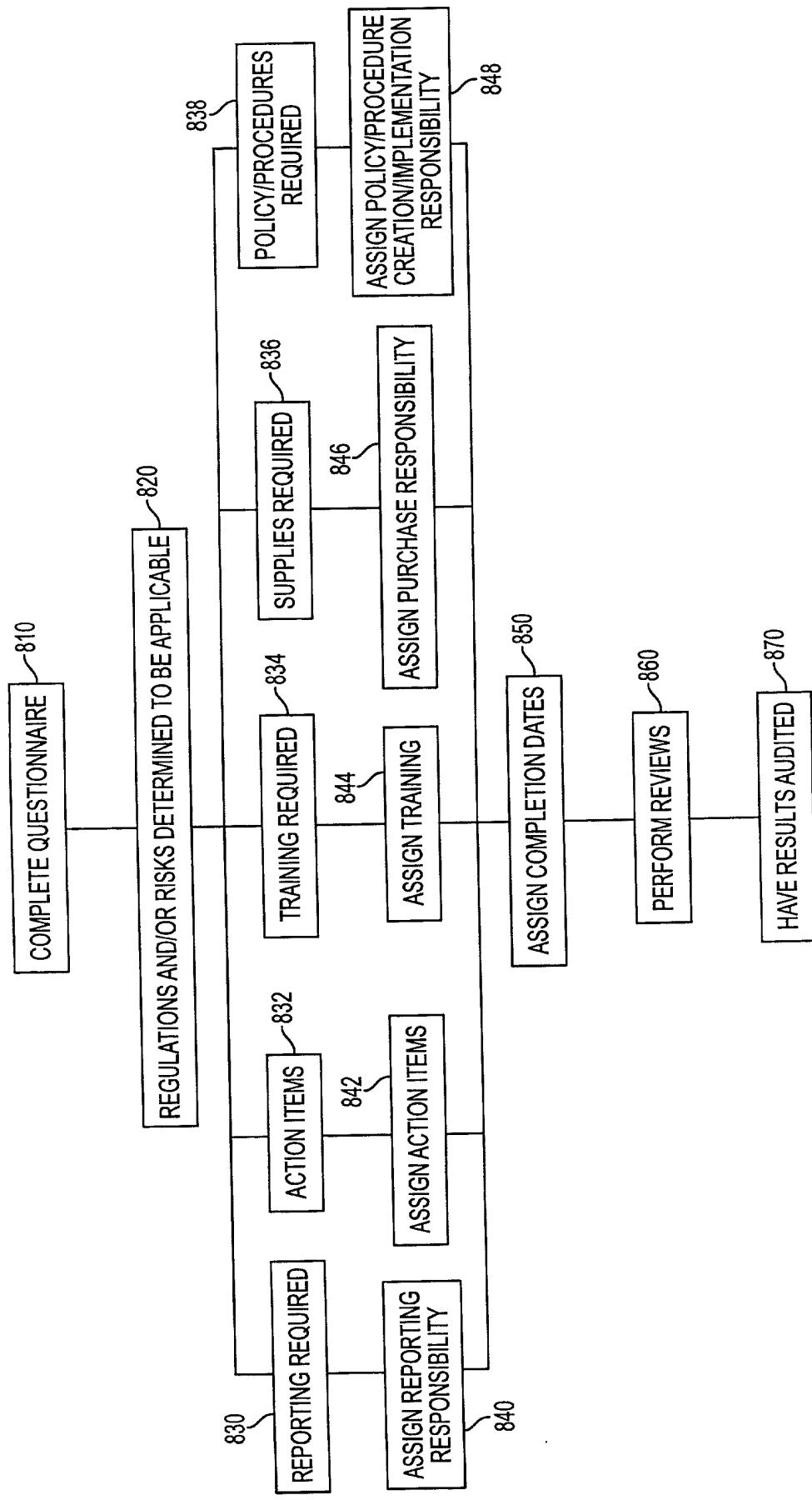


FIG. 8

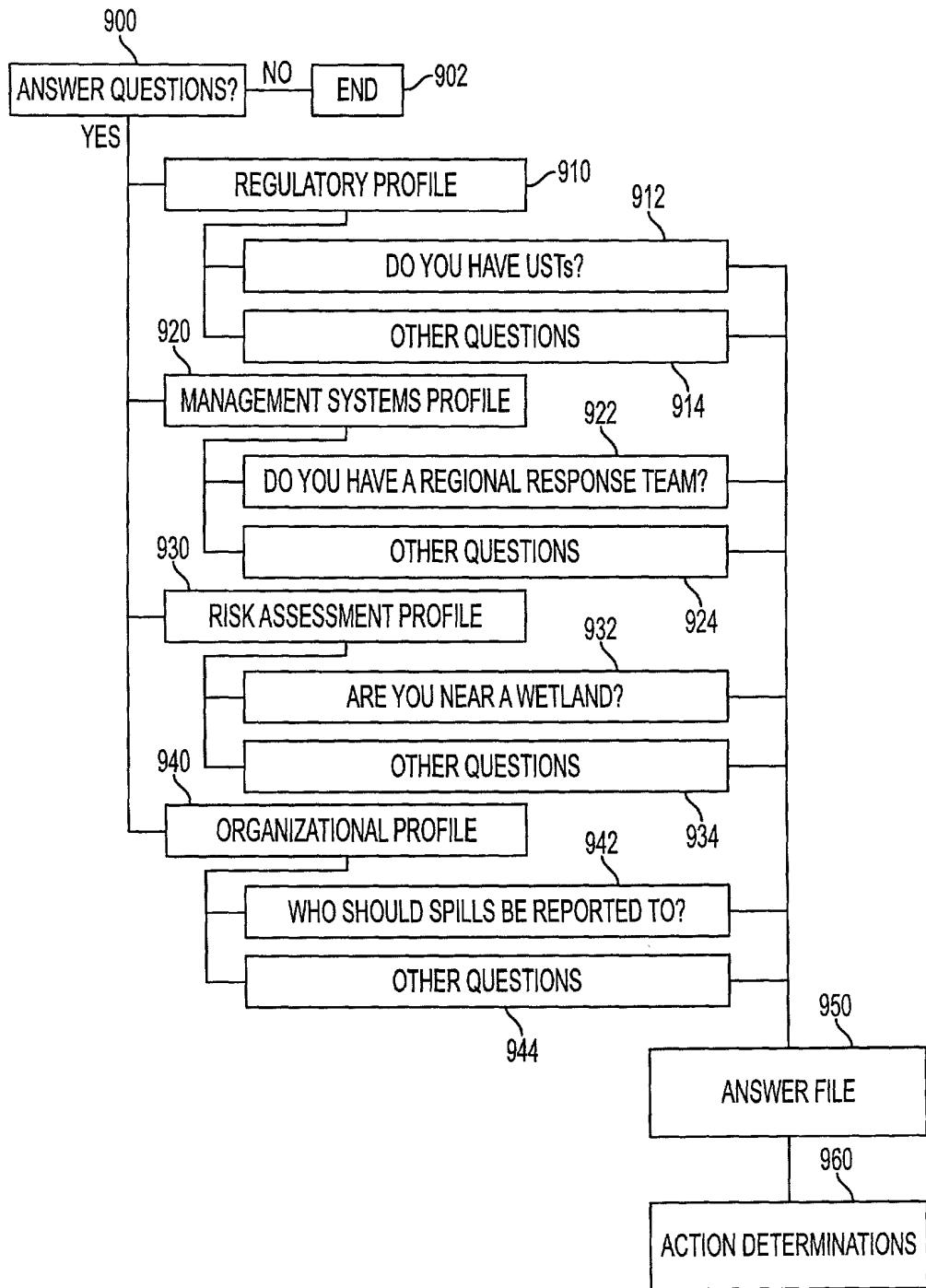


FIG. 9

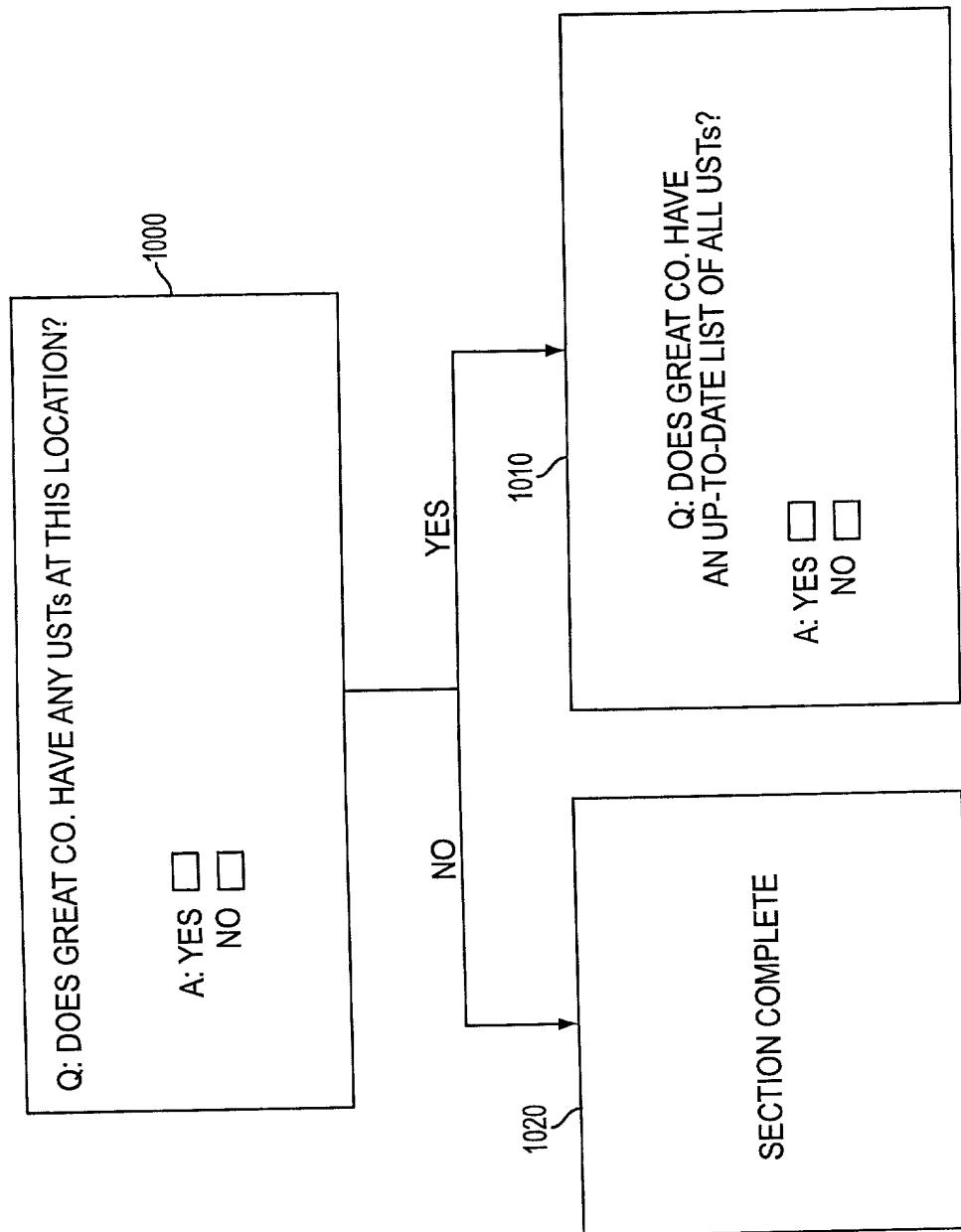


FIG. 10

ACTION ITEMS:		
1. CONDUCT AN INVENTORY		
PERSON RESPONSIBLE:	[<NAME>]	NOTES: 1100
START DATE:	[<DATE>]	
DUE DATE:	[<DATE>]	
FUNCTION/DEPARTMENT	[<DEPARTMENT>]	
REGULATORY DOMAIN	SAFETY AND HEALTH	
BACKGROUND REFERENCE	29 CFR 1910.1200(f)(5)	
DRIVER:	HAZCOM PROFILE QUESTION #5	
SEE:	POLICY ON INVENTORIES	
2. PURCHASE SAFETY GOGGLES		
PERSON RESPONSIBLE:	[<NAME>]	NOTES: 1110
START DATE:	[<DATE>]	
DUE DATE:	[<DATE>]	
FUNCTION/DEPARTMENT	[<DEPARTMENT>]	
REGULATORY DOMAIN	SAFETY AND HEALTH	
BACKGROUND REFERENCE	29 CFR 1910.1200(f)(5)	
DRIVER:	HAZCOM PROFILE QUESTION #6	
3. SCHEDULE HAZCOM TRAINING		
PERSON RESPONSIBLE:	[<NAME>]	NOTES: 1120
START DATE:	[<DATE>]	
DUE DATE:	[<DATE>]	
FUNCTION/DEPARTMENT	[<DEPARTMENT>]	
REGULATORY DOMAIN	SAFETY AND HEALTH	
BACKGROUND REFERENCE	29 CFR 1910.1200(f)(5)	
DRIVER:	HAZCOM PROFILE QUESTION #6	

FIG. 11

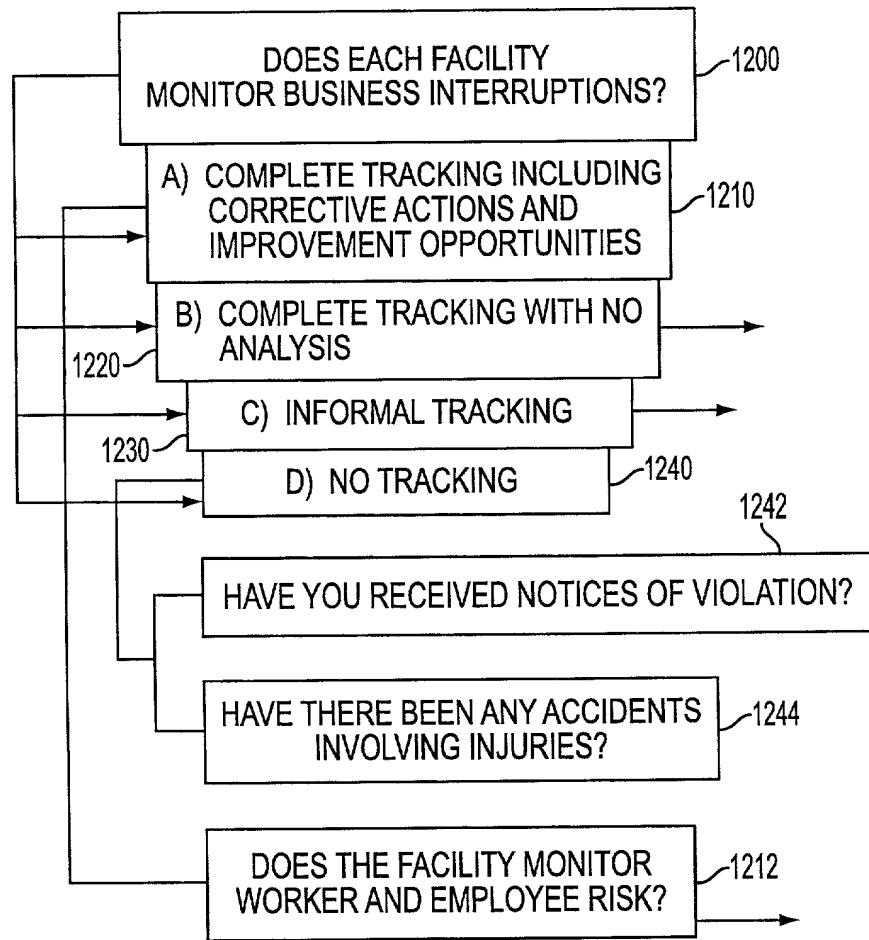


FIG. 12

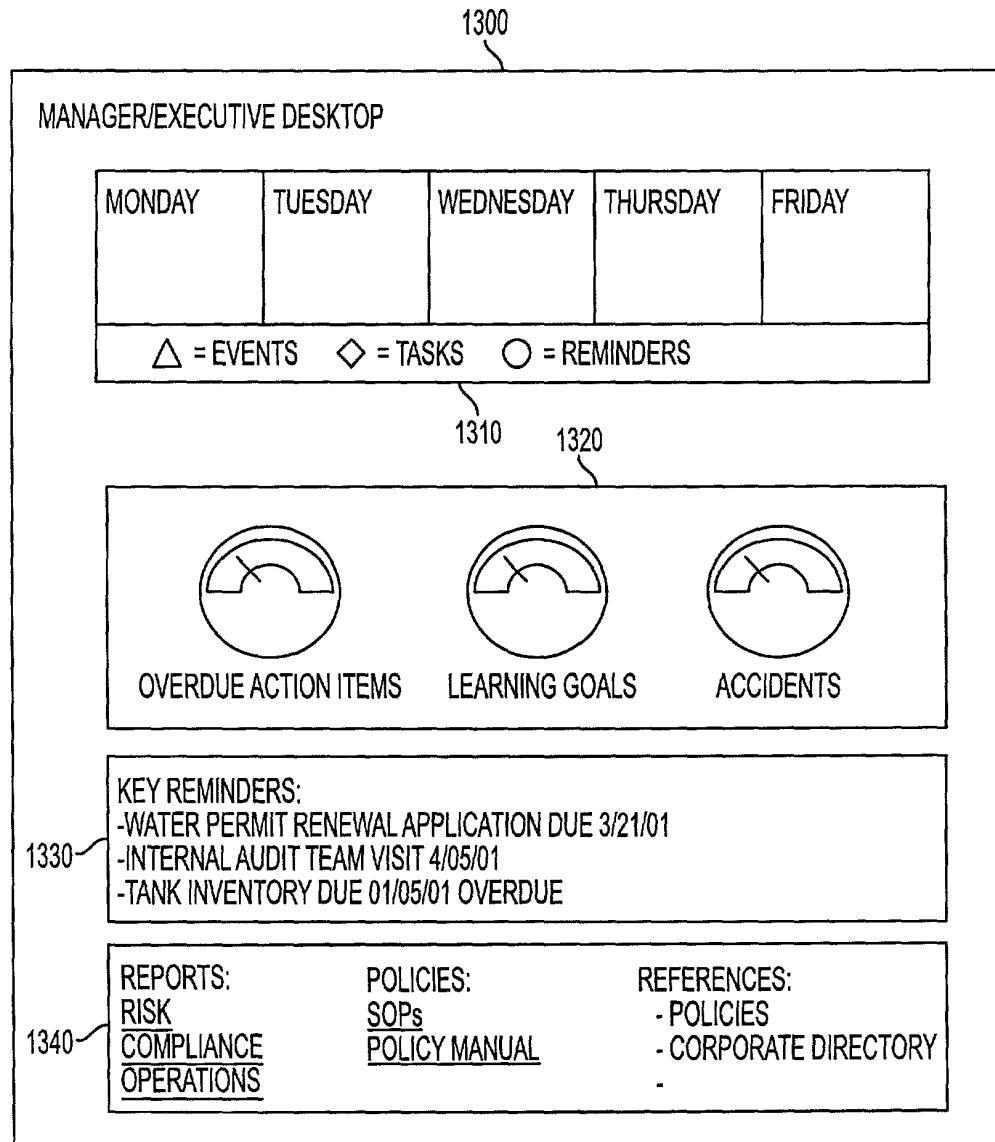


FIG. 13

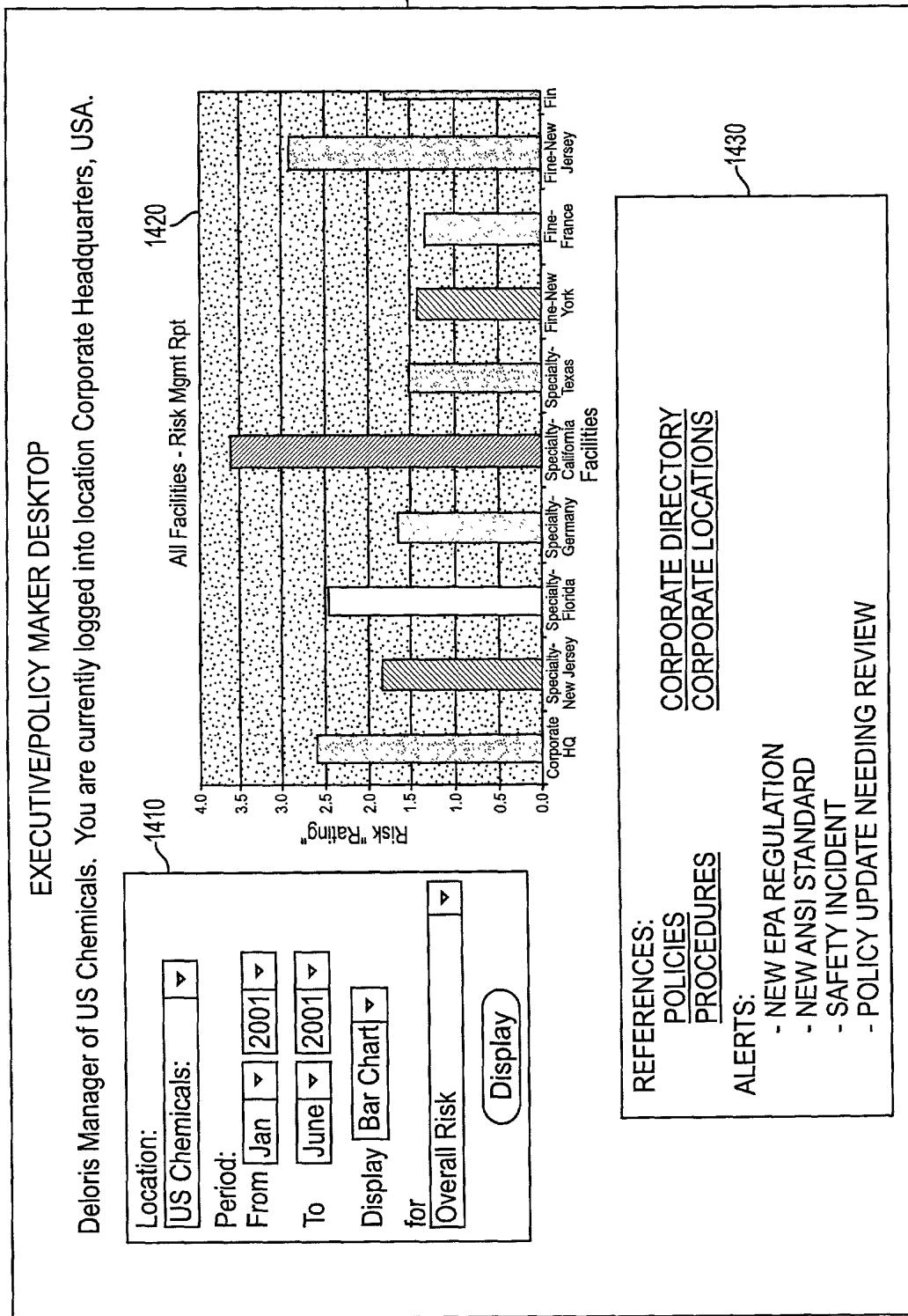


FIG. 14

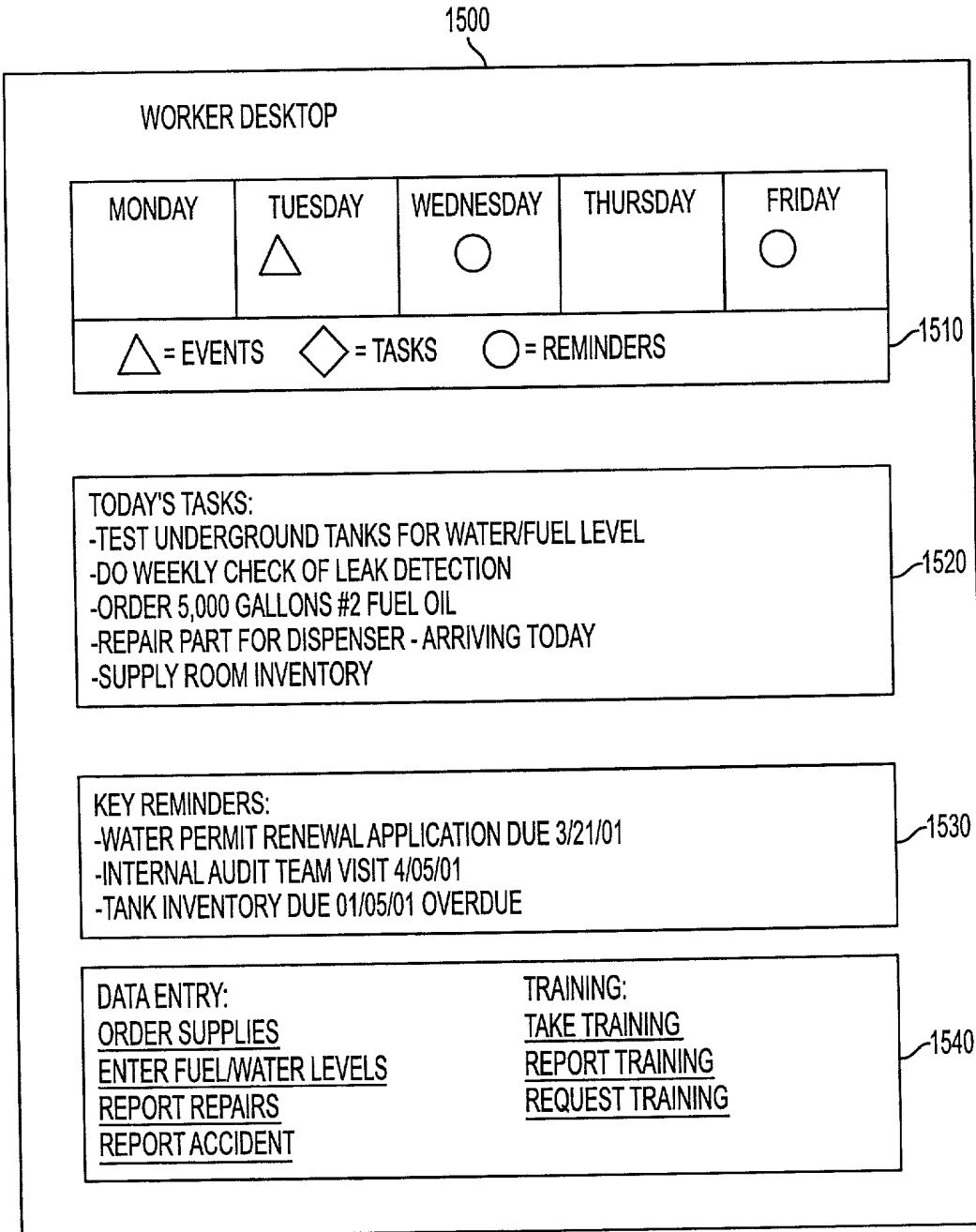


FIG. 15

1600

WORKERS TRAINING

	COURSE NAME	STATUS	DU DATE	PRIORITY
1610	<u>HAZCOM</u>	PENDING	03/20/01	MANDATORY
1620	<u>COMBUSTIBLE AND FLAMMABLE LIQUIDS</u>	PENDING	03/20/01	MANDATORY
1630	<u>FIRE EXTINGUISHERS</u>	PENDING	03/20/01	MANDATORY
1640	<u>FIRE PREVENTION</u>	PENDING	03/20/01	MANDATORY
1650	<u>FIRST AID</u>	PENDING	03/20/01	MANDATORY
	...	PENDING	03/20/01	MANDATORY

CLICK ON COURSE NAME TO TAKE OR SIGN UP FOR COURSE

FIG. 16

WORKERS TRAINING

HAZCOM

	COURSE PROVIDER	LOCATION	COURSE DATE	COST
1710	<u>LIBERTY TRAINING</u>	CHICAGO	03/20/01	\$50
1720	<u>DEWEY, CHEATUM AND HOWE, LICENSED TRAINING PARTNERS</u>	DENVER	03/20/01	\$600
1730	<u>FINE TRAINING</u>	LOS ANGELES	03/20/01	\$60
1740	<u>FINE TRAINING</u>	WASH. DC	03/20/01	\$40
1750	<u>MEDIOCRE TRAINING</u>	ATLANTA	03/20/01	\$50
	...	EVERYWHERE	03/20/01	\$10

CLICK ON COURSE NAME TO TAKE OR SIGN UP FOR COURSE

<u>RELATED PRODUCTS</u>	<u>RELATED MSDS INFORMATION</u>
-------------------------	---------------------------------

FIG. 17

 Action Items

Date: July 4, 2001

Action items by [Due Date](#) [Display](#)

Title	Name	Start Date	Due Date
Test Respirators	Joe Worker	6/27/2001	7/3/2001
Review Sample Data for Air Permit	Deloris Manager	7/2/2001	7/3/2001
Complete Warehouse and Shipping Dock Inventory	Al Watson	7/4/2001	7/4/2001
Draft Site Aspects and Impacts for ISO 14001 Conf. Call	Deloris Manager	7/2/2001	7/4/2001
Review Soil Sample Data & Develop Questions for Consultants	Deloris Manager	7/4/2001	7/4/2001
Find and Update Chemical Inventory for Shipping Briefing	Deloris Manager	7/4/2001	7/5/2001
Update KPIs and Draft New Indicators for KPI Call	Deloris Manager	7/5/2001	7/5/2001
Collect Accident Root Cause Report	Joe Worker	7/2/2001	7/6/2001
Complete Inventory of Testing Chemicals	Alexander Smith	7/4/2001	7/6/2001
Run for Testing Batch for Production Run #2018	Alexander Smith	7/4/2001	7/6/2001
Complete Maintenance Shop Chemical Inventory	Bob Johnson	7/5/2001	7/6/2001
Develop Weekly EHS Status Report for Plant Manager	Deloris Manager	7/6/2001	7/6/2001
Draft Air Permit Application	Deloris Manager	7/6/2001	7/6/2001
Review Accident Root Cause Reports	Deloris Manager	7/6/2001	7/6/2001
Finalize Annual Contract with Waste Management Firm	Jacquelin Jones	7/3/2001	7/6/2001
Collect Samples for Air Permit	Joe Worker	7/3/2001	7/6/2001
Lubricate Production Machinery	Bob Johnson	7/10/2001	7/13/2001
Clear Production Sun Pump under Production Module #3	Jacquelin Jones	7/10/2001	7/17/2001
Organize Shipping Labels for Chemical Inventory	Al Watson	7/6/2001	7/27/2001
HAZCOM Training	Al Watson	7/2/2001	7/31/2001

FIG. 18

1900



Chemical Management Templates

[Change Template >>>](#)

Template Type	Search Criteria	Search Results List	Details Standard
<input checked="" type="radio"/> BASIC	<ul style="list-style-type: none">• Name• Trade Name• Manufacturer Name	<ul style="list-style-type: none">• Trade Name• Name• Manufacturer Name• Physical State	<ul style="list-style-type: none">• OSHA
<input type="radio"/> ADVANCED	<ul style="list-style-type: none">• Name• Trade Name• Manufacturer Name• Use• Ingredients• Haz Ingredients	<ul style="list-style-type: none">• Trade Name• Name• Manufacturer Name• Use• Ingredients• Haz Ingredients• Physical State• Specific Gravity• Solubility• Emergency Overview• Exposure Signs• Cleanup• Work Practice	<ul style="list-style-type: none">• OSHA

1910

1920

FIG. 19

Chemical Management: MSDS

2000

2002 2004 2006

Request MSDS Print MSDS Print Labels

2010

Trade Name	Name	Manufacturer Name	Physical State	Options
ACETONE	N/A	EM SCIENCE A DIVISION OF EM INDUSTRIES	LIQUID	<input type="radio"/> PDF <input type="radio"/> Request <input type="radio"/> Folders <input type="radio"/> Products <input type="radio"/> Training

Select all MSDS in the Folder

2012

FIG. 20

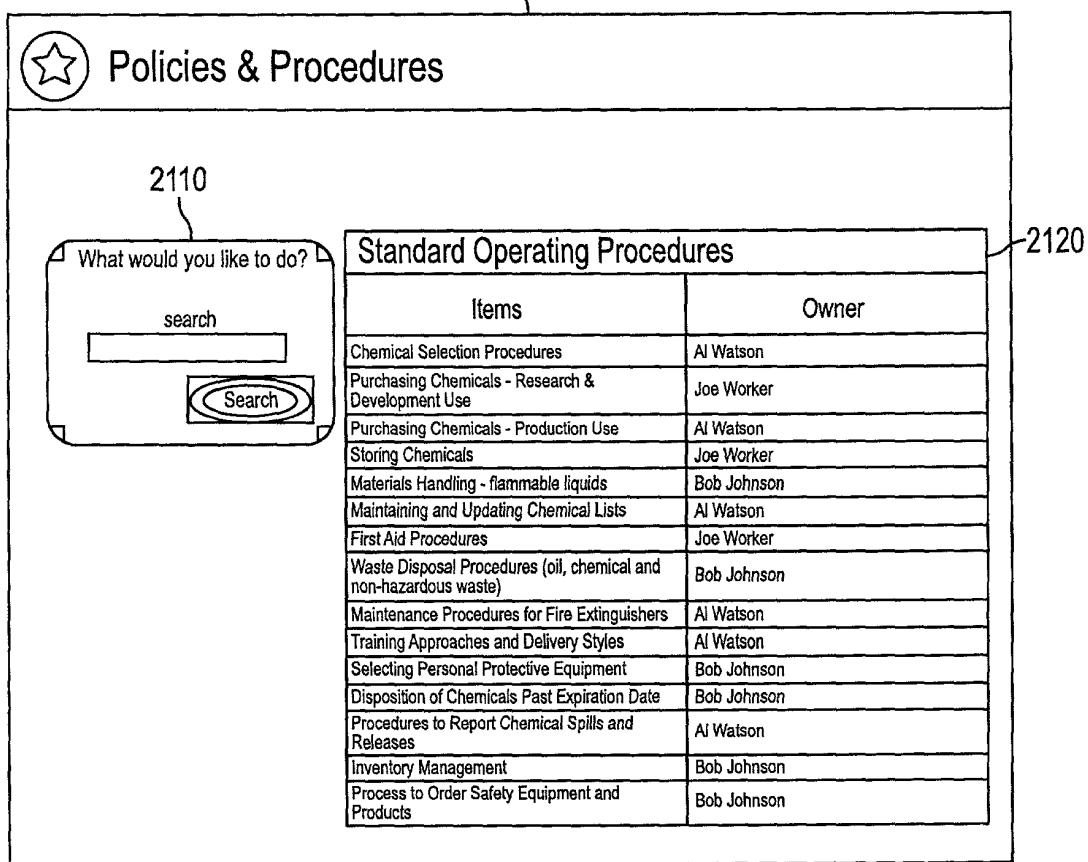


FIG. 21



Policies & Procedures

2200

Items	Rating	Owner
Chemical Selection Procedures	☆☆☆	Al Watson
Maintaining and Updating Chemical Lists	☆☆☆	Al Watson
Materials Handling - flammable liquids	☆☆	Bob Johnson
Waste Disposal Procedures (oil, chemical and non-hazardous waste)	☆☆	Bob Johnson
Disposition of Chemicals Past Expiration Date	☆☆	Bob Johnson
Purchasing Chemicals - Research & Development Use	☆	Joe Worker
Purchasing Chemicals - Production Use	☆	Al Watson
Storing Chemicals	☆	Joe Worker
Procedures to Report Chemical Spills and Releases	☆	Al Watson
Process to Order Safety Equipment and Products	☆	Bob Johnson

FIG. 22

Products & Supplies

Product: Goggles

UVEX Classic Goggles, UVEX 100

Item: #UVEX-100

Excellent for many industrial environments, these safety goggles offer valuable protection against chemical splashes.

Features a soft, flexible PVC body, kept in place with a textured, durable neoprene headband with indirect venting for maximum ventilation.

Ideal for workers with eyeglasses, these goggles have an extra-wide flange for superior comfort.

Meets ANSI Z87.1-1989 standards.

- Get the MSDS for this item
- This item requires training

Pricing	Size	Quantity	Order
1-24 Dozen \$5.75	25+ Dozen \$5.59	n/a	Add to Order
		1	

Other Items Associated with UVEX-100

Item #	Items
M34F93	Wear Resistant Gloves
B4392D	Respirators
S23132	Fire Extinguishers

FIG. 23

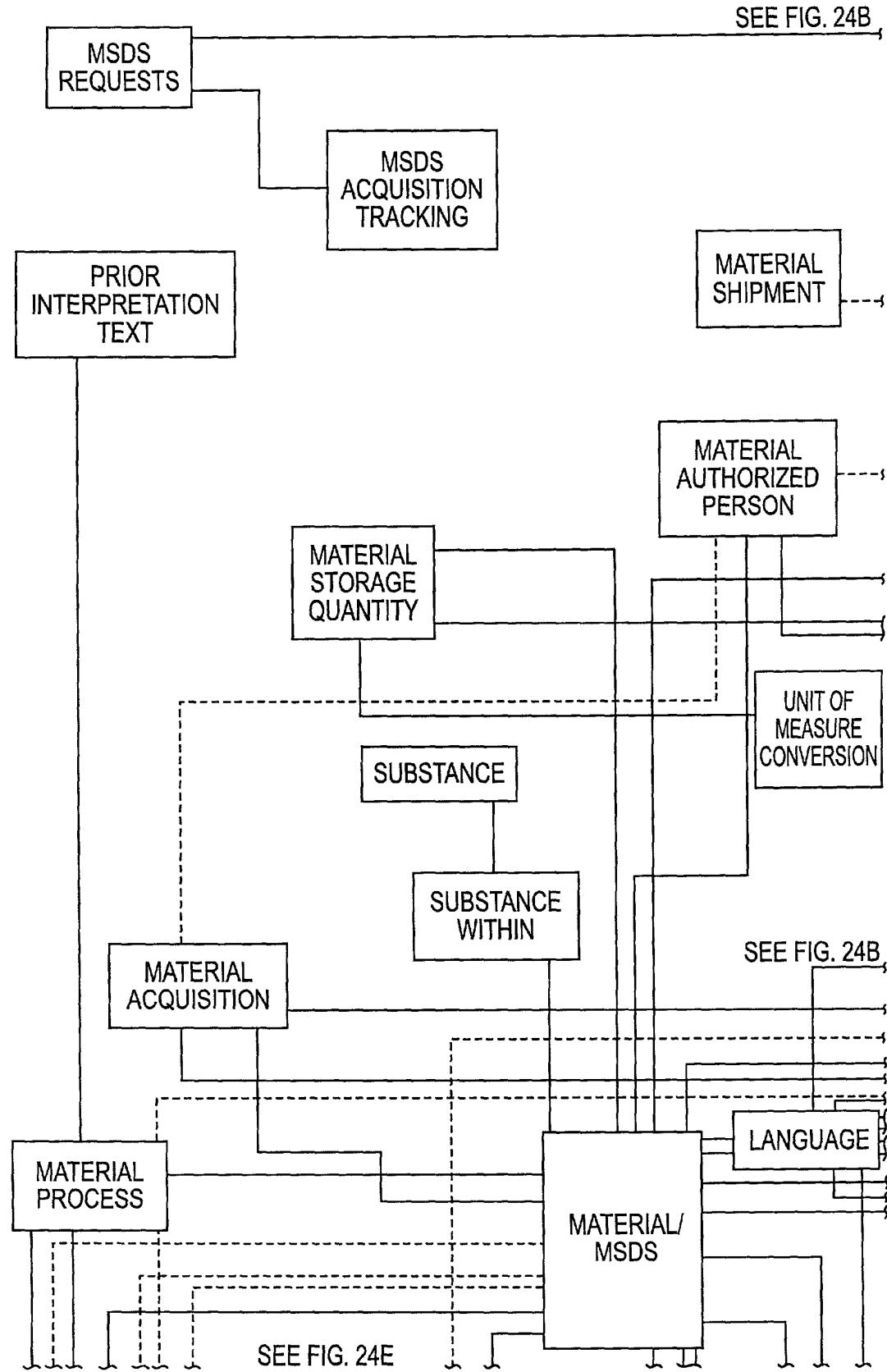


FIG. 24A

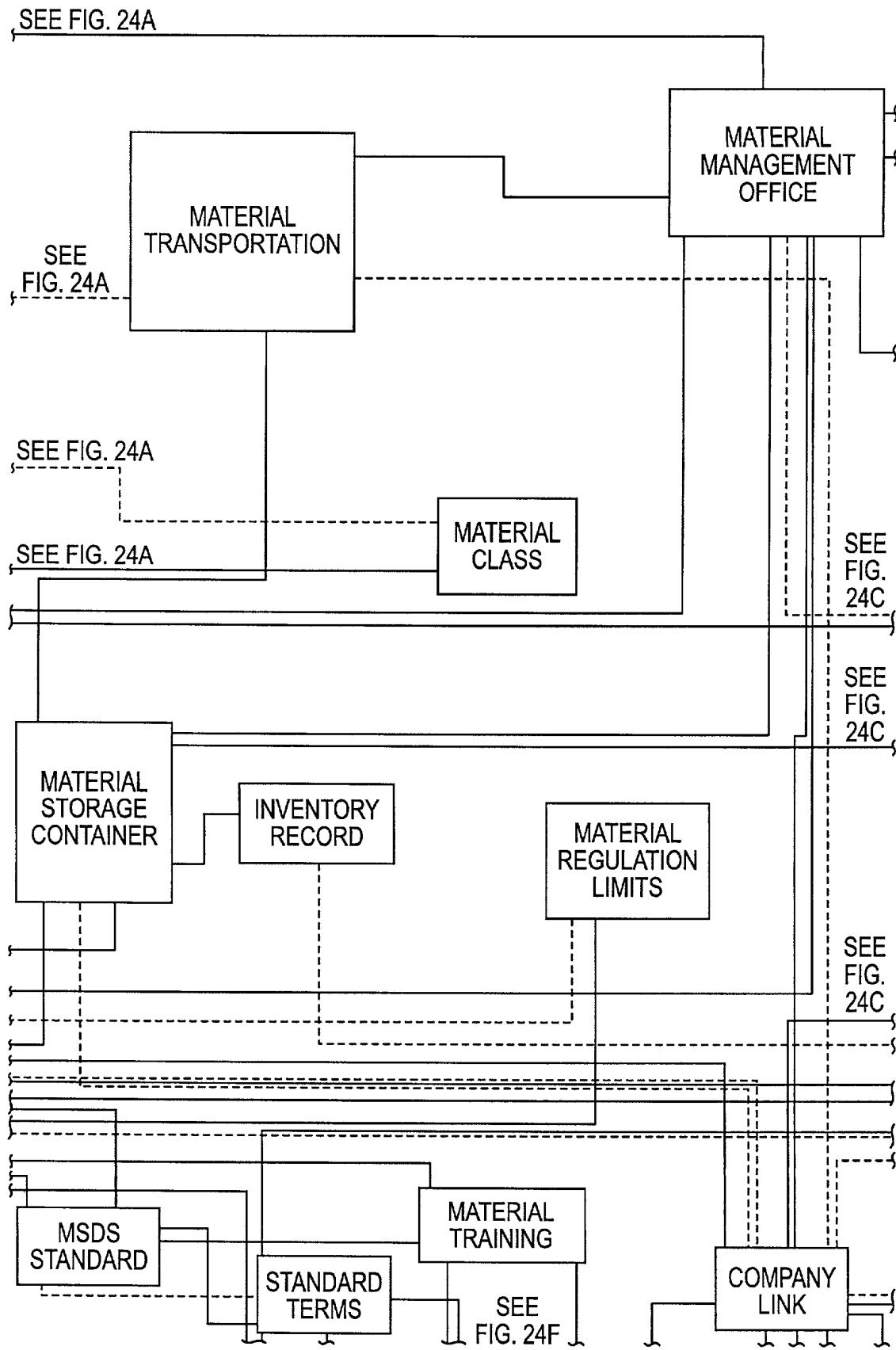


FIG. 24B

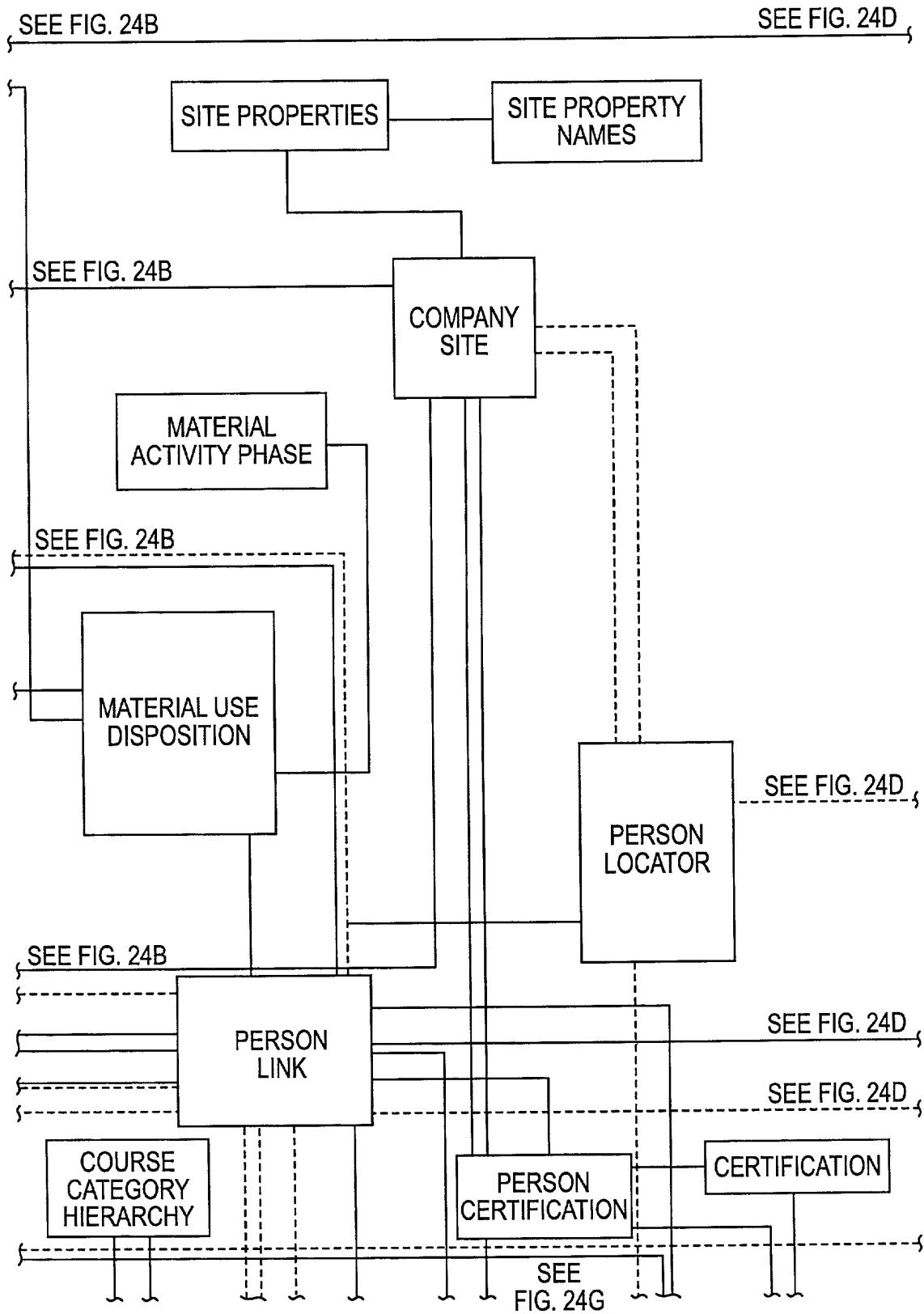


FIG. 24C

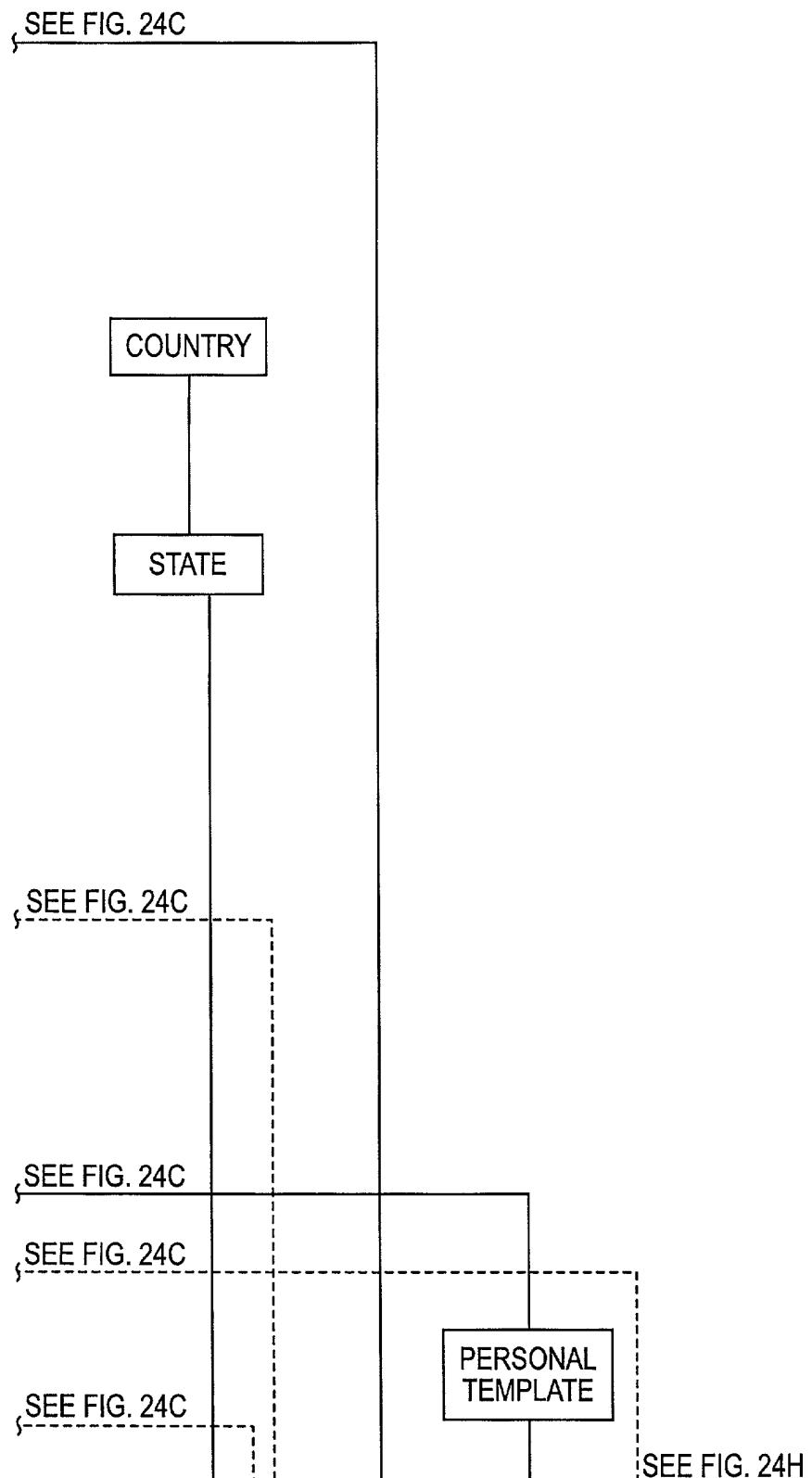


FIG. 24D

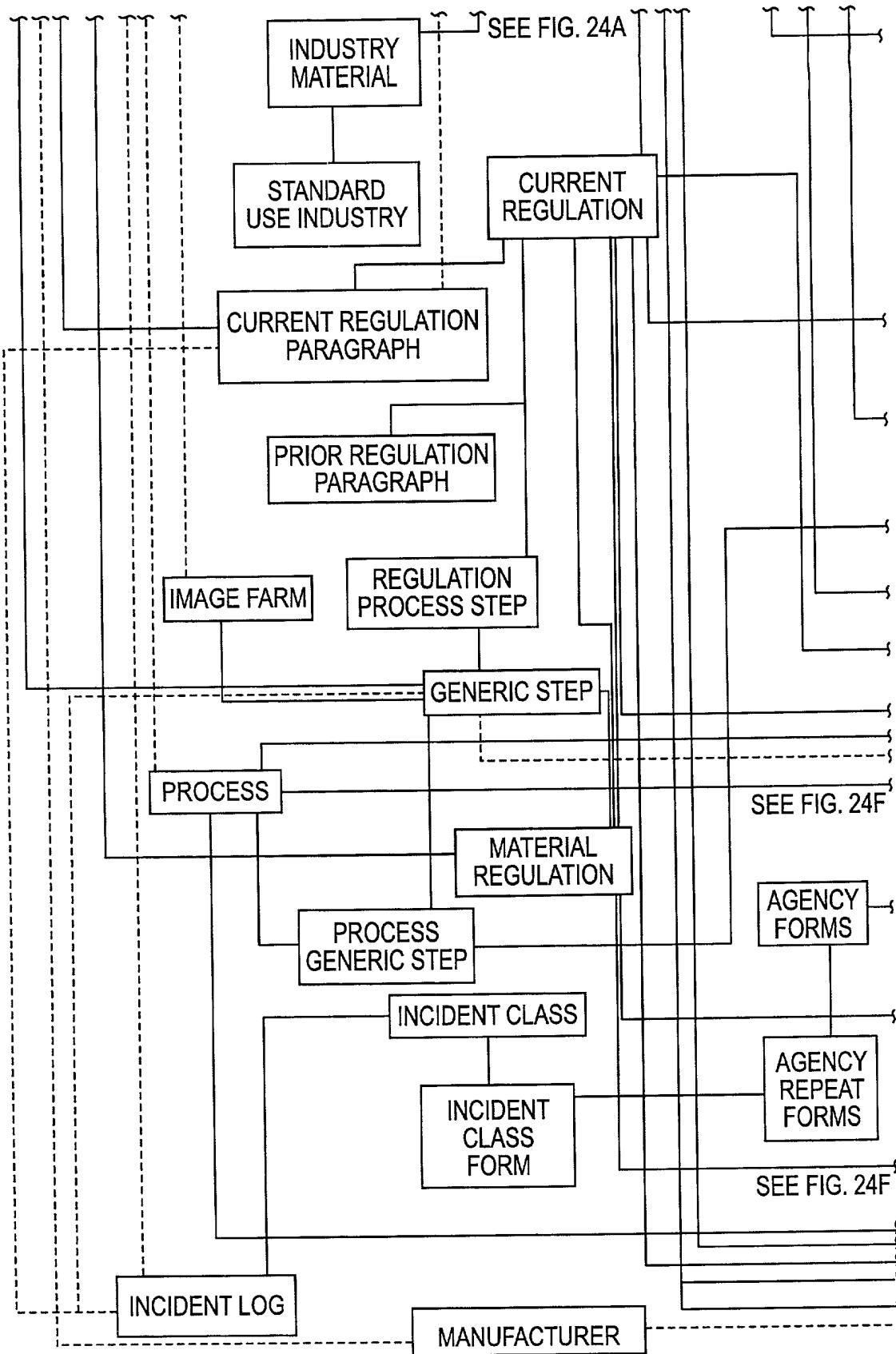


FIG. 24E

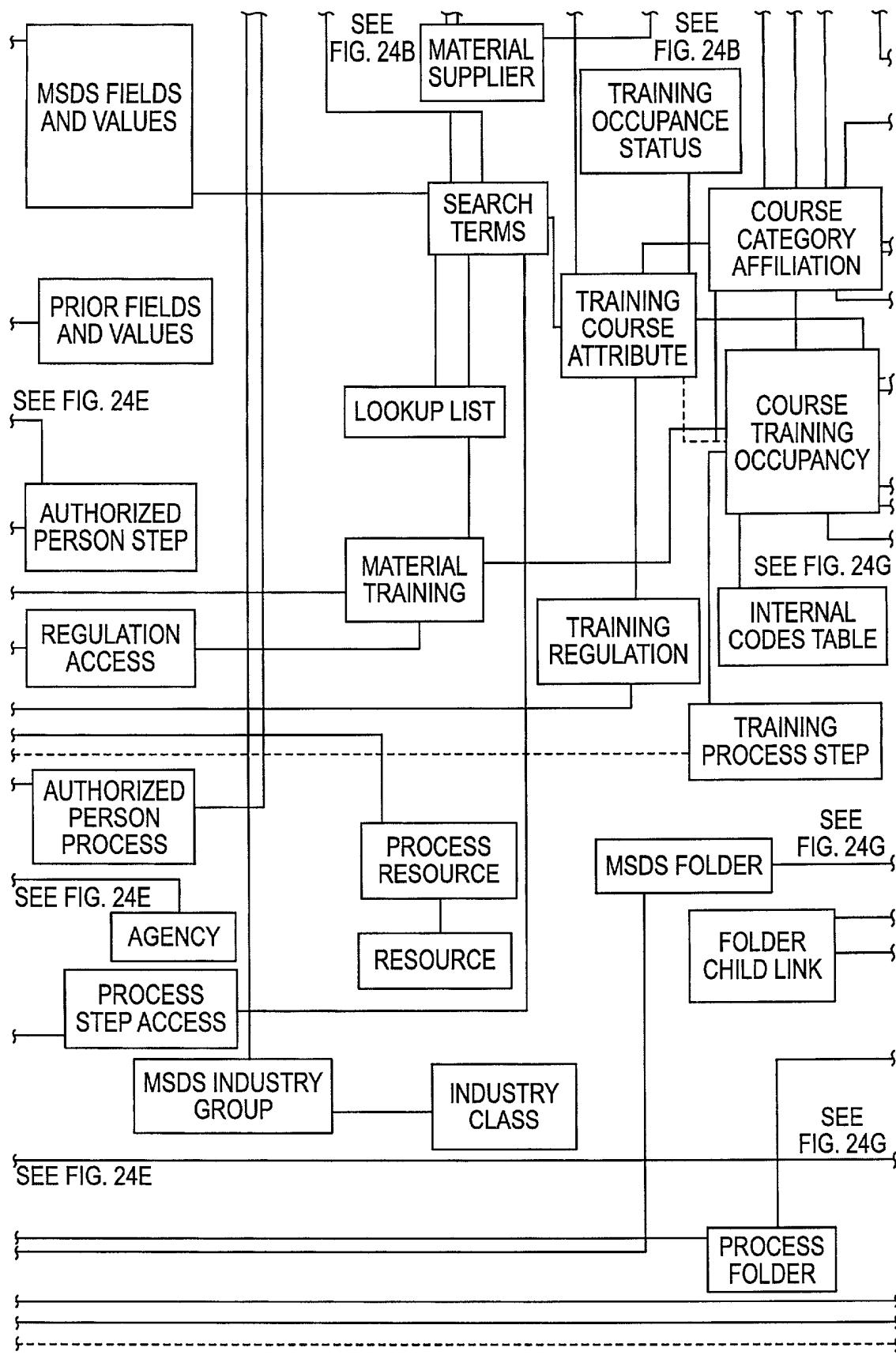


FIG. 24F

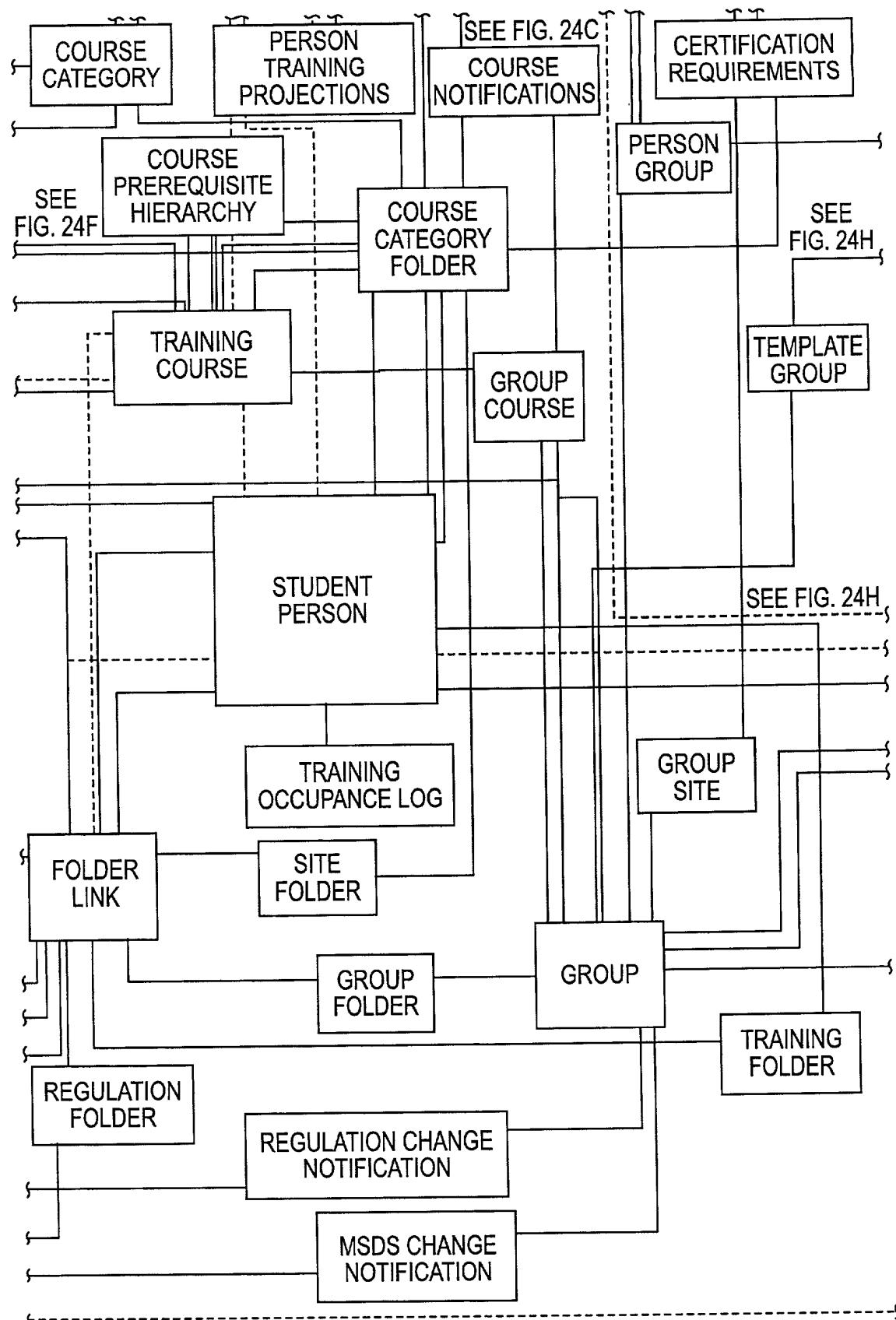


FIG. 24G

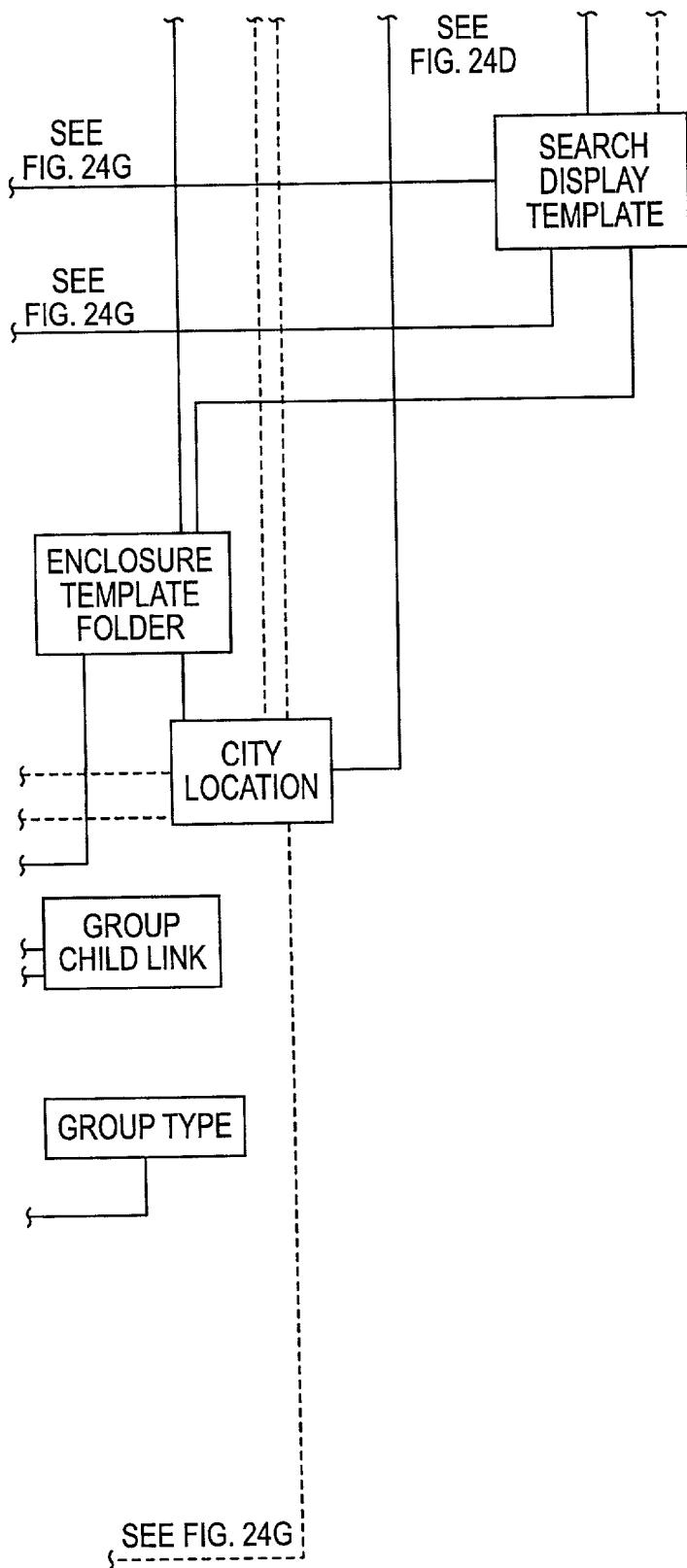


FIG. 24H

MATERIAL_TRANSPORTATION	
STATE_NAME	2500
CONTAINER_ID_BARCODE	
OFFICE_NAME	
OWNER_COMPANY	
FROM_COMPANY	
TO_COMPANY	
OWNER_CITY	
FROM_CITY	
TO_CITY	
OWNER_SITE	
FROM_SITE	
TO_SITE	
MSDS_IDENTIFIER	
ENTRY_SEQUENCE	
ASSIGNED_PERSON_ID	
COUNTRY_NAME	
SHIPMENT_ID	2510
START_DATETIME	
END_DATETIME	
START_QTY	
END_QTY	
SHIPMENT_CARRIER	

FIG.25

MATERIAL_STORAGE_CONTAINER	
COMPANY_ID	2600
SITE_ID	
OFFICE_NAME	
MSDS_IDENTIFIER	
CONTAINER_ID_BARCODE	
ENTRY_SEQUENCE	
ASSIGNED_PERSON_ID	
CITY	
STATE_NAME	
COUNTRY_NAME	
QTY_REMAINING	2610
UNIT_OF_MEASURE	
SUPPLIER_ID	
RECEIVE_DATE	
EXPIRE_DATE	
CONTAINER_LOCATON	
CHANGE_ID	
CHANGE_DATETIME	

FIG.26

INVENTORY_RECORD	
COMPANY_ID	2700
SITE_ID	
OFFICE_NAME	
MSDS_IDENTIFIER	
CONTAINER_ID_BARCODE	
ENTRY_SEQUENCE	
ASSIGNED_PERSON_ID	
CITY	
INVENTORY_DATE	
STATE_NAME	
COUNTRY_NAME	
QTY	2710
PERSON_ID	

FIG.27

MATERIAL_REGULATION_LIMITS	
MSDS_IDENTIFIER	2800
COUNTRY	
STATE	
REGULATION_IDENTIFIER	
PARAGRAPH_SEQUENCE	
MINIMUM_QTY	
MAXIMUM_QTY	
UNIT_OF_MEASURE	
EXCEEDS_LIMITS_MSG	2810
EFFECTIVE_DATE	

FIG.28

MATERIAL_USE_DISPOSITION	
COMPANY_ID	2900
COUNTRY_NAME	
STATE_NAME	
CITY	
SITE_ID	
OFFICE_NAME	
CONTAINER_ID_BARCODE	
MSDS_IDENTIFIER	
ACTIVITY_WORD	
ACTIVITY_PERSON_ID	
ASSIGNED_PERSON_ID	
ASSIGNMENT_DATETIME	
ENTRY_SEQUENCE	
QUANTITY_FROM_INVENTORY	2910
UNIT_OF_MEASURE	
RETURN_DATETIME	
QUANTITY_RETURNED	
LOCATION_OF_USEDISPOSITION	
DATE_OF_USEDISPOSITION	

FIG.29

PERSON_LOCATOR
PERSON_ID
PERSON_LAST_NAME
STATE_NAME
COUNTRY_NAME
SITE_ID
COMPANY_ID
CITY
PERSON_MALE_Y
PERSON_BIRTH_DATE
PERSON_FIRST_NAME
PERSON_MIDDLE_NAME
PERSON_HOME_STREET
POSTAL_CODE
PERSON_HOME_PHONE_1
PERSON_HOME_PHONE_2
PERSON_CELL_PHONE
PERSON_HOME_FAX
PERSON_PAGER
PERSON_OFFICE_PHONE_1
PERSON_OFFICE_PHONE_2
CHANGE_ID
CHANGE_DATETIME

FIG.30

MATERIAL_MSDS
MSDS_IDENTIFIER
MATERIAL_NAME
COMMON_NAME
CASS_NUMBER
MANUFACTURER_NAME
MANUFACTURER_ID
RECORD_ENTRY_DATE
IMAGE_FILE_ID
SYSTEM_ENTRY_DATE
DATE_ISSUED
REVIEW_DATE
FIRST_AID_DESCRIPTION
SAFETY_LABEL
HAZARD_LABEL
HTML_FILE_1
PDF_FILE_1
ARCHIVED_Y_N
CHANGE_ID
USER_ID

3100

FIG.31

CURRENT_REGULATION_PARAGRAPH
REGULATION_IDENTIFIER
PARAGRAPH_SEQUENCE
EFFECTIVE_DATE
PARAGRAPH_KEY
HTML_PARAGRAPH_TEXT
HTML_TRANSLATION

3200

3210

FIG.32

Diagram illustrating a database table structure:

COURSE_TRAINING_OCCURANCE	
TRAINING_OCCURANCE_ID	3300
STATE_NAME	
COUNTRY_NAME	
BEGIN_DATE	
END_DATE	
CITY	
BUILDING	
ROOM	
STATUS_PHRASE	
COURSE_ID	
COURSE_URL	

FIG.33

STUDENT_PERSON	
COMPANY_ID	3400
PERSON_ID	
TRAINING_OCCURANCE_ID	
TRAINING_DATE_BEGIN	
TRAINING_DATE_END	
COMMENT	
ACCEPTANCE_CONFIRMATION_DATE	3410
COMPLETED_Y_N	
GRADE	
COURSE_FEEDBACK_FILENAME	
COURSE_ID	
ASSIGNER	
CURRENT_STATUS	

FIG.34

REGULATION_CHANGE_NOTIFICATION
GROUP_ID
REGULATION_IDENTIFIER
CHANGE_DATETIME
COMPANY_ID
CURRENT_PARAGRAPH_SEQUENCE
PRIOR_PARAGRAPH_SEQUENCE

3500

3510

FIG.35

INCIDENT_LOG
INCIDENT_DATE
INCIDENT_SEQUENCE
INCIDENT_CLASS_ID
REGULATION_IDENTIFIER
PARAGRAPH_SEQUENCE
MSDS_IDENTIFIER
PROCESS_STEP_ID
INCIDENT_DESCRIPTION
REMEDIAL_ACTION_DESCRIPTION
EFFECTIVE_DATE

3600

3610

FIG.36

MANUFACTURER
MANUFACTURER_ID
STATE_NAME
COUNTRY_NAME
MANUFACTURER_NAME
MANUFACTURER_TEL_NUMBER
EMERGENCY_TEL_NUMBER
ADDR_LINE_1
ADDR_LINE_2
ADDR_LINE_3
CITY
POSTAL_CODE

3700

3710

FIG.37

MATERIAL_ACQUISITION	
OFFICE_NAME	
COMPANY_ID	
MSDS_IDENTIFIER	
FROM_COMPANY_ID	
TO_COMPANY_ID	
CITY	
SITE_ID	
STATE_NAME	
COUNTRY_NAME	
AUTHORIZED_PURCHASER	3800
ORIGINAL_AUTHORIZATION_DATE	
ORDER_QUANTITY	
ORDER_DATE	
RECEIVE_DATE	
COMMENT	

FIG.38

ITEMS
SKU
Name
Description
Price
PriceLimit
Price2
Price2Limit
Price3
Price3Limit
Price4
SalePrice
UnitID
Weight
Attribute1
Attribute2
Attribute3
Taxable
MfgID
ImageFull
ImageThumb
AssociatedItem1
AssociatedItem2
AssociatedItem3
AssociatedItem4
AssociatedItem5
CategoryID
SubCategoryID

3900

FIG.39

09321690.050403

CREDIT_ACCOUNTS	
CREDIT_ACCOUNT_ID	
DATE_CREATED	
STATUS	4000
COMPANY_NAME	
PAYABLE_NAME	
PAYABLE_PHONE	
PAYABLE_FAX	
PAYABLE_EMAIL	
PAYABLE_ADDRESS	
PAYABLE_CITY	
PAYABLE_STATE	
PAYABLE_ZIP	
PURCHASING_NAME	
PURCHASING_PHONE	
PURCHASING_FAX	
PURCHASING_EMAIL	
PURCHASING_ADDRESS	
PURCHASING_CITY	
PURCHASING_STATE	
PURCHASING_ZIP	
DONNS_NUMBER	
DONNS_RATING	
REFERENCE1_NAME	
REFERENCE1_ADDRESS	
REFERENCE1_PHONE	
REFERENCE2_NAME	
REFERENCE2_ADDRESS	
REFERENCE2_PHONE	
REFERENCE3_NAME	
REFERENCE3_ADDRESS	
REFERENCE3_PHONE	
BANK_NAME	
BANK_ACCOUNT_NUMBER	
BANK_ADDRESS	
BANK_PHONE	
BANK_FAX	
SIGNATURE_COMPANY_NAME	
SIGNTURE_CREDIT_LIMIT	
SIGNATURE_FULL_NAME	
SIGNATURE_FULL_TITLE	

FIG.40